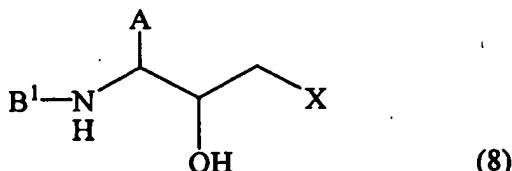


Marked-up copy
of claims to show
changes made by
Examiner's Amendment
to claims 13, 16 & 18
BJD
2/10/05

AMENDMENTS TO THE CLAIMS

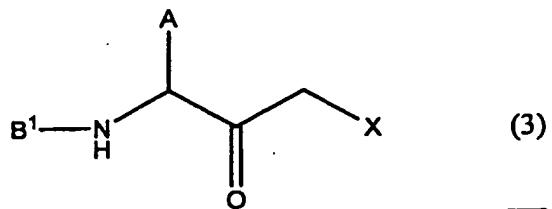
Claims 1 – 12 (Canceled).

Claim 13 (Currently Amended): A process for producing N-protected β -aminoalcohols of following general formula (8), or a salt thereof:



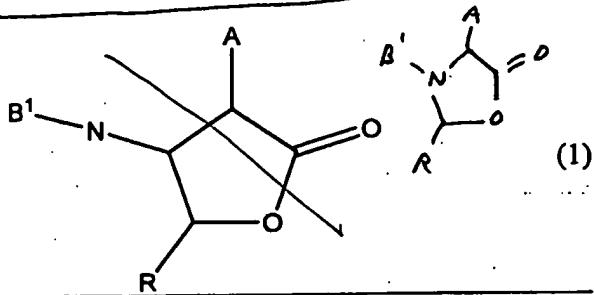
wherein A represents an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms, aryl group having 6 to 15 carbon atoms or aralkyl group having 7 to 20 carbon atoms, or a group corresponding thereto which contains a hetero atom in the carbon skeleton an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms which contains a hetero atom in the carbon skeleton, an aryl group having 6 to 15 carbon atoms which contains a hetero atom in the carbon skeleton, or an aralkyl group having 7 to 20 carbon atoms which contains a hetero atom in the carbon skeleton; B¹ represents a protecting group for the amino group; and X represents a halogen atom,

which comprises the steps of producing an N-protected α -aminohalomethyl ketone of general formula (3), or a salt thereof by the process of claim 1,



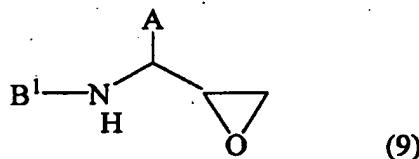
wherein A, B¹, and X are as defined above, and then reducing this ketone, wherein said producing an N-protected α -aminohalomethyl ketone of formula (3) comprises:

reacting a 3-oxazolidin-5-one derivative of the following formula (1) with a halomethyl lithium to produce a reaction product.



wherein R represents an unsubstituted or substituted aryl group or lower alkyl group, or a hydrogen atom, and A and B¹ are as defined above; X
and then treating the reaction product with an acid.

Claim 14 (Currently Amended): A process for producing N-protected β -aminoepoxides of following general formula (9):

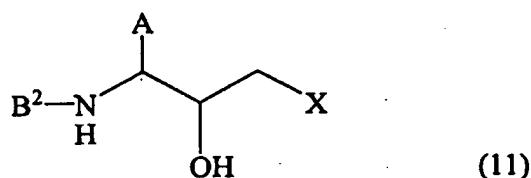


wherein A represents an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms, aryl group having 6 to 15 carbon atoms or aralkyl group having 7 to 20 carbon atoms, or a group corresponding thereto which contains a hetero atom in the carbon skeleton an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms which contains a hetero atom in the carbon skeleton, an aryl group having 6 to 15 carbon atoms which contains a hetero atom in the carbon skeleton, or an aralkyl group having 7 to 20 carbon atoms which contains a hetero atom in the carbon skeleton; and B¹ represents a protecting group for the amino group,

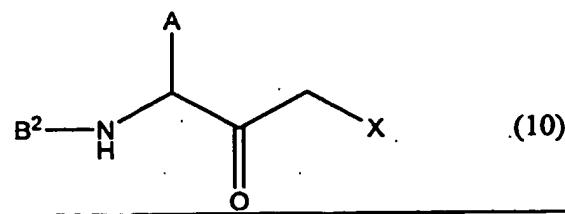
which comprises the steps of producing an N-protected β -amino alcohol of general formula (8) by the process of claim 13, and then treating this alcohol with a base.

Claim 15 (Canceled)

Claim 16 (Currently Amended): A process for producing N-protected β -aminoalcohols of following general formula (11):

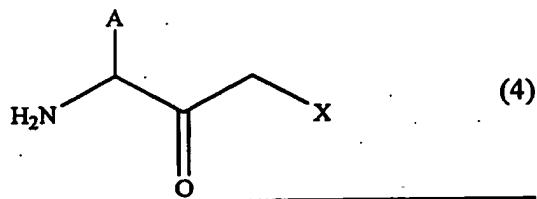


wherein A represents an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms, aryl group having 6 to 15 carbon atoms or aralkyl group having 7 to 20 carbon atoms, or a group corresponding thereto which contains a hetero atom in the carbon skeleton; an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms which contains a hetero atom in the carbon skeleton, an aryl group having 6 to 15 carbon atoms which contains a hetero atom in the carbon skeleton, or an aralkyl group having 7 to 20 carbon atoms which contains a hetero atom in the carbon skeleton; B² represents a protecting group for the amino group; and X represents a halogen atom, which comprises the steps of producing an N-protected α -aminohalomethyl ketone of general formula (10); by the process of claim 15.



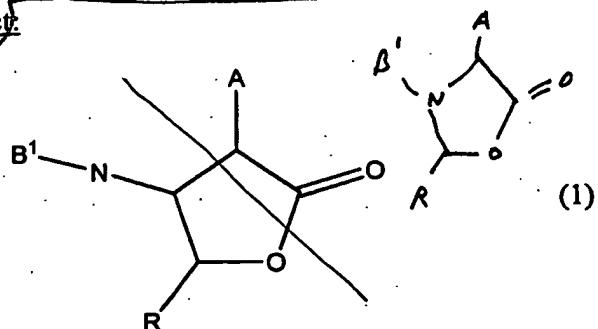
wherein A, B², and X are as defined above, and then reducing this ketone, wherein said producing N-protected α -aminohalomethyl ketone of the following formula (10) comprises:

producing an α -aminohalomethyl ketone of the formula (4):



wherein A and X are as defined above, or a salt thereof, by reacting a 3-oxazolidin-5-one derivative of the following formula (1) with a halomethyl lithium to produce a reaction

product:

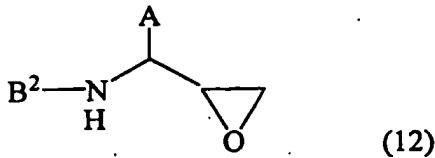


wherein R represents an unsubstituted or substituted aryl group or lower alkyl group, or a hydrogen atom, B¹ represents a protecting group for the amino group, and A is as defined above:

X ←

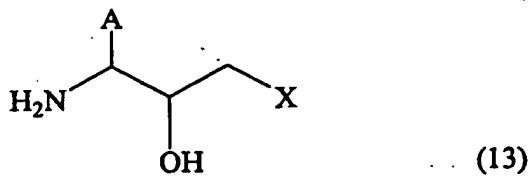
treating the reaction product with an acid; and
then protecting the amino group thereof.

Claim 17 (Currently Amended): A process for producing N-protected β -aminoepoxides of following general formula (12):



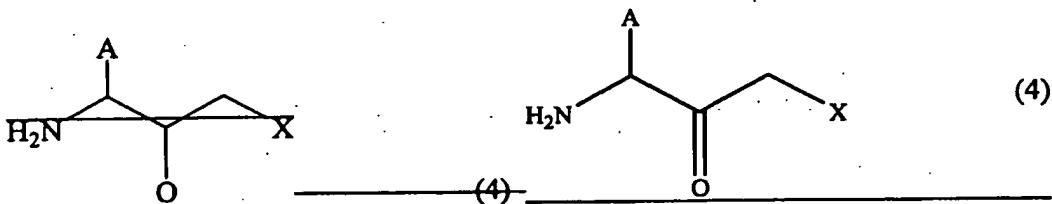
wherein A represents an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms, aryl group having 6 to 15 carbon atoms or aralkyl group having 7 to 20 carbon atoms, ~~or a group corresponding thereto which contains a hetero atom in the carbon skeleton~~ an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms which contains a hetero atom in the carbon skeleton, an aryl group having 6 to 15 carbon atoms which contains a hetero atom in the carbon skeleton, or an aralkyl group having 7 to 20 carbon atoms which contains a hetero atom in the carbon skeleton; and B² represents a protecting group for the amino group; and X represents a halogen atom, by which comprises the steps of producing an N-protected β-amino alcohol of general formula (11) by the process of claim 16, and then treating this alcohol with a base.

Claim 18 (Currently Amended): A process for producing β-aminoalcohols of following general formula (13), or a salt thereof:



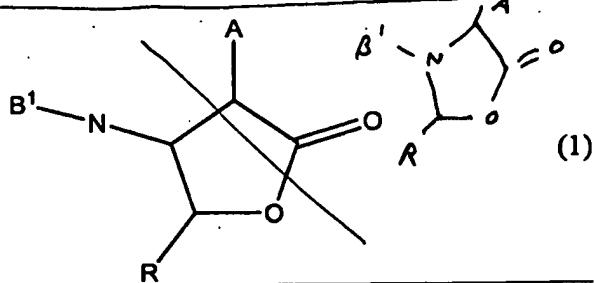
wherein A represents an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms, aryl group having 6 to 15 carbon atoms or aralkyl group having 7 to 20 carbon atoms, ~~or a group corresponding thereto which contains a hetero atom in the carbon skeleton~~ an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms which contains a hetero atom in the carbon skeleton, an aryl group having 6 to 15 carbon atoms which contains a

a hetero atom in the carbon skeleton, or an aralkyl group having 7 to 20 carbon atoms which contains a hetero atom in the carbon skeleton; and X represents a halogen atom, or salts thereof, by which comprises the steps of producing an α -aminohalomethyl ketone of general formula (4):



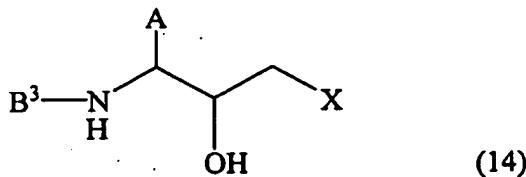
wherein A and X are as defined above, or a salt thereof by the process of claim 1, and then reducing this ketone, wherein said producing an α -aminohalomethyl ketone of formula (4) comprises:

reacting a 3-oxazolidin-5-one derivative of the following formula (1) with a halomethyl lithium to produce a reaction product.



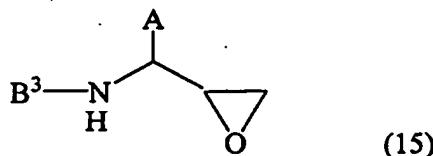
wherein R represents an unsubstituted or substituted aryl group or lower alkyl group, or a hydrogen atom, and A and B¹ are as defined above; X ←
and then treating the reaction product with an acid.

Claim 19 (Currently Amended): A process for producing N-protected β -aminoalcohols of following general formula (14):



wherein A represents an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms, aryl group having 6 to 15 carbon atoms or aralkyl group having 7 to 20 carbon atoms, ~~or a group corresponding thereto which contains a hetero atom in the carbon skeleton~~ an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms which contains a hetero atom in the carbon skeleton, an aryl group having 6 to 15 carbon atoms which contains a hetero atom in the carbon skeleton, or an aralkyl group having 7 to 20 carbon atoms which contains a hetero atom in the carbon skeleton; B³ represents a protecting group for the amino group; and X represents a halogen atom, which comprises the steps of producing a β - aminoalcohol of general formula (13) or a salt thereof by the process of claim 18, and then protecting the amino group thereof with a protecting group.

Claim 20 (Currently Amended): A process for producing N-protected β - aminoepoxides of following general formula (15):



wherein A represents an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms, aryl group having 6 to 15 carbon atoms or aralkyl group having 7 to 20 carbon atoms, ~~or a group corresponding thereto which contains a hetero atom in the carbon skeleton~~ an unsubstituted or substituted alkyl group having 1 to 10 carbon atoms which contains a hetero atom in the carbon skeleton, an aryl group having 6 to 15 carbon atoms which contains a

a hetero atom in the carbon skeleton, or an aralkyl group having 7 to 20 carbon atoms which contains a hetero atom in the carbon skeleton; and B³ represents a protecting group for the amino group,

by which comprises the steps of producing an N-protected β-amino alcohol of general formula (14) by the process of claim 19, and then treating this alcohol with a base.

Claim 21 – 22 (Canceled)